PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: PAUS L. HICKMAN HICKMAN STEPHENS, COLEMAN & HUGHES, LLP P.O.BOX 52037 PALO ALTO, CA 94303-0746	PCT NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION (PCT Rule 44.1)				
	(day/month/year) 02 NOV 2000				
Applicant's or agent's file reference SURFP001.P	FOR FURTHER ACTION See paragraphs 1 and 4 below				
International application No.	International filing date				
PCT/US00/15841	(day/month/year) 07 JUNE 2000				
Applicant LIGHTSURF					
The applicant is hereby notified that the international search report has been established and is transmitted herewith. Filling of amendments and statement under Article 19:					
The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46): When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the international search report; however, for more details, see the notes on the accompanying sheet.					
Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35					
For more detailed instructions, see the notes on the accompanying sheet.					
2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.					
3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:					
the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.					
no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.					
4. Further action(s): The applicant is reminded of the following:					
Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in rules 90 bis 1 and 90 bis 3, respectively, before the completion of the technical preparations for international publication.					
Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).					
Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.					
Manager J. 1911 Adams of the ICA/IJC	Latina loa				
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks	Authorized Africa				
Box PCT Washington, D.C. 20231	MINGGE WU				
Facsimile No. (703) 305-3230	Telephone No. (703) 305-3900				

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference SURFP001.P	FOR FURTHER ACTION			mational Search Report applicable, item 5 below.		
International application No.	International filing date	(day/month/year)	(Earliest) Priority I	Date (day/month/year)		
PCT/US00/15841	07 JUNE 2000		08 JUNE 1999			
Applicant LIGHTSURF						
This international search report has bee according to Article 18. A copy is being	ng transmitted to the Inter	national Bureau.	thority and is trans	mitted to the applicant		
 -	This international search report consists of a total of sheets. X It is also accompanied by a copy of each prior art document cited in this report.					
1. Basis of the report	sa intarnational assumb	carried out on the bo	eis of the intermetion	al amplication in the		
 a. With regard to the language, the language in which it was filed, 			sis of the internation	at appacation in the		
the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).						
b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:						
	contained in the international application in written form.					
filed together with the international application in computer readable form.						
furnished subsequently to th						
furnished subsequently to th	furnished subsequently to this Authority in computer readable form.					
furnished subsequently to this Authority in written form. furnished subsequently to this Authority in computer readable form. the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.						
international application as filed has been furnished. the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.						
2. Certain claims were found	Certain claims were found unsearchable (See Box I).					
Unity of invention is lacking (See Box II).						
4. With regard to the fitle,						
X the text is approved as subn	X the text is approved as submitted by the applicant.					
the text has been established	the text has been established by this Authority to read as follows:					
5. With regard to the abstract,						
the text is approved as subn	nitted by the applicant.					
Box III. The applicant may,	the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.					
6. The figure of the drawings to be pe	6. The figure of the drawings to be published with the abstract is Figure No. 3a					
X as suggested by the applicar	nt.		П	None of the figures.		
because the applicant failed	to suggest a figure.		لببا	or min 1.8-100		
because this figure better ch	aracterizes the invention.					

INTERNATIONAL SEARCH REPORT

International application No. PCT/US00/15841

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

NEW ABSTRACT

A digital imaging system (311 and 321) is described that provides techniques for reducing the amount of processing power requied by a given digital camera device and for reducing the bandwidth reqired for transmitting image information to a target platform. The system defers and/or distributes the processing between the digital image (311 and 321) and the target platform (311 AND 321) that the digital imager will ultimately be connected to. In teis manner, the system is able to decrease the actual computation that occures at the digital imager. Instead, the system only performs a partial computation that digital imager and completes the computation somewhere else, such as at a target computing device where time and size are not an issue (relative to the digital imager). By deferring resource-intensive computations, the present invention substantially reduces the processor requirements and concomitant battery reqirements for digital cameras. Further, by adopting an image strategy optimized for compression (317 and 330), the present invention decreases the bandwidth reqirements for transmitting images, thereby facilitating the wirless transmission of digital camera images.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US00/15841

IPC(7) US CL	SSIFICATION OF SUBJECT MATTER: :G06K 9/36, : 382/232, 248; 348/207, 552			
	to International Patent Classification (IPC) or to bot	th national classification and IPC		
***	LDS SEARCHED	-11-1-ic		
Minimum documentation searched (classification system followed by classification symbols) U.S.: 382/232, 248; 348/207, 552				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) east (us, epo, jpo)				
C. DOC	UMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where a	appropriate, of the relevant passages	Relevant to claim No.	
X,P	US 6,028,807 A (AWSIENKO) 22 February 2000, Fig.3a, col. 6 1,3-9,18-21 ,23- line 13-col. 7 line 15 27,38-41,43- 49,58-68			
Y,P			2, 22, 42	
Y,P	US 6,064,437 A (PHAN ET AL.) 16 l 2 line 54	May 2000, col. 1 line 13-col.	2, 22, 42	
Y,P	US 6,091,777 A (GUETZ ET AL.) col. 7 line 21	18 July 2000, col. 1 line 21-	1-57	
Furth	er documents are listed in the continuation of Box (C. See patent family annex.		
'A" doc	coial categories of cited documents: cument defining the general state of the art which is not considered be of particular relevance	"T" later document published after the inte- date and not in conflict with the appli- the principle or theory underlying the	cation but cited to understand	
'L' doc cite spe 'O' doc	lier document published on or after the international filing date cument which may throw doubts on priority claim(s) or which is d to establish the publication date of another citation or other citation (as specified)	"Y" document of particular relevance; the considered novel or cannot be consider when the document is taken alone "Y" document of particular relevance; the considered to involve an inventive combined with one or more other such	ed to involve an inventive step claimed invention cannot be step when the document is documents, such combination	
	sument published prior to the international filing date but later than	being obvious to a person skilled in the "&" document member of the same patent		
	priority data claimed actual completion of the international scarch	Date of mailing of the international sea	rch report	
26 SEPTE	MBER 2000	02 NOV 2000		
Commission Box PCT	nailing address of the ISA/US ner of Patents and Trademarks , D.C. 20231	Authorized officer SINGGE WU		
	o. (703) 305-3230	Telephone No. (703) 305-3900		

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty and of the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

The claims only.

The description and the drawings may only be amended during international preliminary examination under Chapter II.

When? Within 2 months from the date of transmittal of the interactional search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as latving been received on time if they are specived by the international Dumes after the expiration of the applicable time limit but before the completion of the technical proposations for international publication (Rule 46.1).

Where not to flie the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A seplecement shoet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confounded with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the daim is new;
- (iv) the claim replaces one or more claims as filed:
- (v) the claim is the result of the division of a claim as filed.

PATENT COOPERATION TREATY

PCT

NOTIFICATION CONCERNING SUBMISSION OR TRANSMITTAL OF PRIORITY DOCUMENT

(PCT Administrative Instructions, Section 411)

From the INTERNATIONAL BUREAU

HICKMAN, Paul, L. Hickman Stephens Coleman & Hughes, LLP P.O. Box 52037 Palo Alto, CA 94303-0746 **ETATS-UNIS D'AMERIQUE**

Date of mailing (day/month/year) 27 September 2000 (27.09.00)	
Applicant's or agent's file reference SUFP001.P	IMPORTANT NOTIFICATION
International application No. PCT/US00/15841	International filing date (day/month/year) 07 June 2000 (07.06.00)
International publication date (day/month/year) Not yet published	Priority date (day/month/year) 08 June 1999 (08.06.99)
Applicant LIGHTSURF	00 00110 1000 (00.00.00)

- The applicant is hereby notified of the date of receipt (except where the letters "NR" appear in the right-hand column) by the International Bureau of the priority document(s) relating to the earlier application(s) indicated below. Unless otherwise indicated by an asterisk appearing next to a date of receipt, or by the letters "NR", in the right-hand column, the priority document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).
- This updates and replaces any previously issued notification concerning submission or transmittal of priority documents.
- An asterisk(*) appearing next to a date of receipt, in the right-hand column, denotes a priority document submitted or transmitted to the International Bureau but not in compliance with Rule 17.1(a) or (b). In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.
- The letters "NR" appearing in the right-hand column denote a priority document which was not received by the International Bureau or which the applicant did not request the receiving Office to prepare and transmit to the International Bureau, as provided by Rule 17.1(a) or (b), respectively. In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

Priority date

Priority application No.

Country or regional Office or PCT receiving Office

Date of receipt of priority document

05 Nove 1999 (05.11.99)

09/434,703

US

19 July 2000 (19.07.00)

REC'D OCT 11 2000

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Tessadel PAMPLIEGA Top

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